

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An acrylic pressure sensitive adhesive containing an acrylic polymer and a tackifier,

wherein the acrylic polymer is polymerized with a polymerization initiator having a 10-hour half-life of 80°C or lower and under a polymerizing condition carrying out the reaction while keeping at the temperature higher than 10-hour half-life temperature and keeping the polymerization temperature T in the final stage of the polymerization in a range satisfying the condition defined by the following equation 5,

wherein the tackifier contains 13% by weight or lower of a component with 600 or lower of molecular weight,

which has 500 ppm or lower of volatile component concentration A calculated by the following equation (1), when the acrylic pressure sensitive adhesive is heated at 90°C for 30 minutes:

$$\text{volatile component concentration A (ppm)} = \frac{\text{volatile component content X } (\mu\text{g})}{\text{pressure sensitive adhesive weight Z (g) before heating}} \quad (1)$$

in the equation (1), the volatile component content X is an amount measured by conversion into toluene

$$t_{1/2} + 25 \geq T \geq t_{1/2} + 5 \quad (5)$$

wherein $t_{1/2}$ is 10-hour half-life temperature.

2. (currently amended): An acrylic pressure sensitive adhesive containing an acrylic polymer and a tackifier,

wherein the acrylic polymer is polymerized with a polymerization initiator having a 10-hour half-life of 80°C or lower and under polymerizing condition carrying out the reaction while keeping at the temperature higher than 10-hour half-life temperature and keeping the polymerization temperature T in the final stage of the polymerization in a range satisfying the conditions defined by the following equation (5),

wherein the tackifier contains 13% by weight or lower of a component with 600 or lower of molecular weight,

which has 600 ppm or lower of volatile component concentration B calculated by to the following equation (2), when the acrylic pressure sensitive adhesive is heated at 120°C for 30 minutes:

$$\text{volatile component concentration B (ppm)} = \frac{\text{volatile component content Y (\mu g)}}{\text{pressure sensitive adhesive weight Z (g) before heating}} \quad (2)$$

in the equation (2), the volatile component content Y is an amount measured by conversion into n-hexadecane

$$t_{1/2} + 25 \geq T \geq t_{1/2} + 5 \quad (5)$$

wherein $t_{1/2}$ is 10-hour half-life temperature.

3. (canceled).

4. (previously presented): A pressure sensitive adhesive tape,

which has a pressure sensitive adhesive layer comprising the acrylic pressure sensitive adhesive according to Claim 1,

the pressure sensitive adhesive tape having 300 ppm or lower of volatile component concentration C calculated by the following equation (3), when the pressure sensitive adhesive tape is heated at 90°C for 30 minutes:

volatile component concentration C (ppm) = volatile component content P (μg)/pressure sensitive adhesive tape weight R (g) before heating (3)

in the equation (3), the volatile component content P is an amount measured by conversion into toluene.

5. (previously presented): A pressure sensitive adhesive tape,
which has a pressure sensitive adhesive layer comprising the acrylic pressure sensitive adhesive according to Claim 1,

the pressure sensitive adhesive tape having 400 ppm or lower of volatile component concentration D calculated by the following equation (4), when the pressure sensitive adhesive tape is heated at 120°C for 30 minutes:

volatile component concentration D (ppm) = volatile component content Q (μg)/pressure sensitive adhesive tape weight R (g) before heating (4)

in the equation (4), the volatile component content Q is an amount measured by conversion into n-hexadecane.

6. (currently amended): A vehicular air conditioner unit,

which is ~~obtainable~~ fixed by ~~using~~ the pressure sensitive adhesive tape according to Claim 4.

7. (canceled).

8. (previously presented): A pressure sensitive adhesive tape,
which has a pressure sensitive adhesive layer comprising the acrylic pressure sensitive adhesive according to Claim 2,

the pressure sensitive adhesive tape having 300 ppm or lower of volatile component concentration C calculated by the following equation (3), when the pressure sensitive adhesive tape is heated at 90°C for 30 minutes:

volatile component concentration C (ppm) = volatile component content P (μg)/pressure sensitive adhesive tape weight R (g) before heating (3)

in the equation (3), the volatile component content P is an amount measured by conversion into toluene.

9. (canceled).

10. (previously presented): A pressure sensitive adhesive tape,
which has a pressure sensitive adhesive layer comprising the acrylic pressure sensitive adhesive according to Claim 2,

the pressure sensitive adhesive tape having 400 ppm or lower of volatile component concentration D calculated by the following equation (4), when the pressure sensitive adhesive tape is heated at 120°C for 30 minutes:

volatile component concentration D (ppm) = volatile component content Q (μg)/pressure sensitive adhesive tape weight R (g) before heating (4)

in the equation (4), the volatile component content Q is an amount measured by conversion into n-hexadecane.

11. (canceled).

12. (currently amended): A vehicular air conditioner unit,
which is ~~obtainable~~ fixed by ~~using~~ the pressure sensitive adhesive tape according to
Claim 5.

13. (currently amended): A vehicular air conditioner unit,
which is ~~obtainable~~ fixed by ~~using~~ the pressure sensitive adhesive tape according to
Claim 8.

14. (canceled).

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No.: 10/509,733

Attorney Docket No.: Q83668

15. (currently amended): A vehicular air conditioner unit,
which is ~~obtainable~~ fixed by ~~using~~ the pressure sensitive adhesive tape according to
Claim 10.

16. (canceled).